

511
918/19

BULLETIN

OF THE
AGRICULTURAL & MECHANICAL COLLEGE OF TEXAS

Third Series, Vol. 4

JANUARY 1, 1918

Number 1

ANNOUNCEMENTS

SESSION 1918 - 19



THE LIBRARY OF THE
AUG 27 1936
UNIVERSITY OF ILLINOIS

ADMISSION AND COURSES OF STUDY

COLLEGE STATION, TEXAS

Published Monthly by the Agricultural and Mechanical College of Texas

Entered as Second Class Matter August 3, 1913, at the Postoffice at College
Station, Texas, under the Act of August 24, 1912

UNIVERSITY OF
ILLINOIS LIBRARY

BULLETIN

OF THE

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS

THIRD SERIES, VOL 4

JANUARY 1, 1918

NUMBER 1

ANNOUNCEMENTS

SESSION 1918 - 19

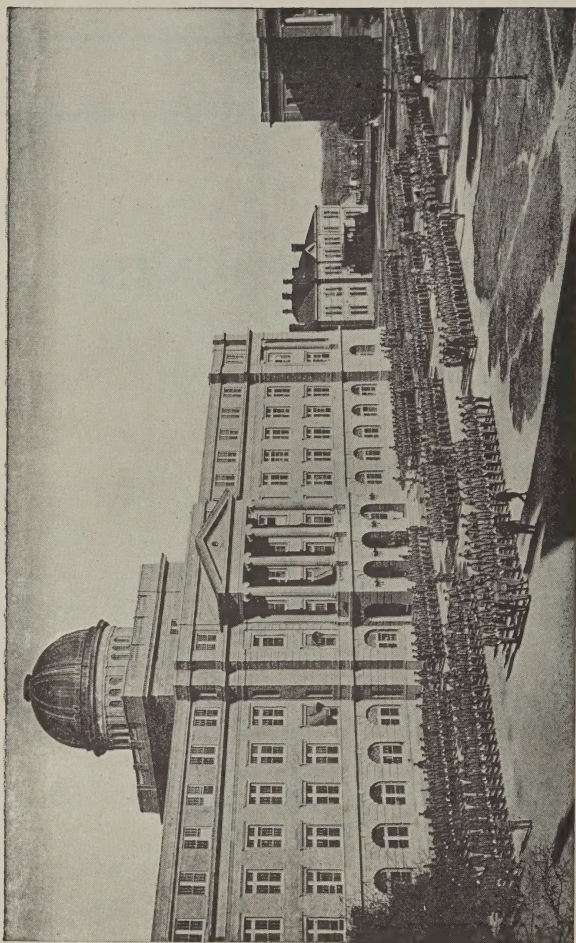


ADMISSION AND COURSES OF STUDY

COLLEGE STATION, TEXAS

Published Monthly by the Agricultural and Mechanical College of Texas

Entered as Second Class Matter August 3, 1913, at the Postoffice at College Station,
Texas, under the Act of August 24, 1912.



THE ACADEMIC BUILDING
The Regiment of 1200 men Assembled for Inspection.

C

T31I

1918/19-

1945/46

'19 compl'

COLLEGE CALENDAR.

1918

Commencement, Sunday, Monday, Tuesday, May 26, 27, 28.

Summer Session, June 3 to July 27:

The Rural Life School (Six weeks)

The Summer Normal (Six weeks)

The College (Eight weeks)

The School of Cotton Classing (Six weeks)

The Farmers' Short Course (One week)

The Forty-third Annual Session Opens Wednesday, September 18.

Entrance Examinations, Monday, Tuesday, Wednesday, September 16, 17, 18.

Registration days, September 18, 19, 20.

Recitation begins Friday, September 20.

Christmas Holidays begin Saturday, December 21, Noon.

1919

Last day of the Christmas Holidays, Thursday, January 2.

Recitations resumed, Friday, January 3, 8 a. m.

Second Term begins Monday, January 27.

Registration for Second Term, January 23, 24, 25, 27.

Commencement, Sunday, Monday, Tuesday, May 25, 26, 27.

BOARD OF DIRECTORS.

JOHN I. GUION, President.....Ballinger
L. J. HART, Vice-President.....San Antonio
S. G. BAILEY, Secretary.....College Station

Term Expires 1919.

ERVIN H. ASTINBryan
JOHN I. GUIONBallinger
L. J. HARTSan Antonio

Term Expires 1921.

A. B. DAVIDSON.....Cuero
J. R. KUBENA.....Fayetteville
W. A. MILLERAmarillo

Term Expires 1923.

F. M. LAWHouston
H. A. BREIHAN.....Bartlett
JOHN T. DICKSONParis

ORGANIZATION OF THE COLLEGE.

The Agricultural and Mechanical College of Texas comprises the following:

The School of Agriculture.
The School of Veterinary Medicine.
The School of Engineering.
The Summer Schools.
The Agricultural Experiment Station.
The Engineering Experiment Station.
The Extension Service.

OFFICERS OF ADMINISTRATION.

WILLIAM BENNETT BIZZELL, M. A., D. C. L.,
President of the College

CHARLES PURYEAR, M. A., C. E., LL. D.,
Dean of the College

B. YOUNGBLOOD, M. S.,
Director of the Agricultural Experiment Station

EDWIN JACKSON KYLE, M. S. A.,
Dean of the School of Agriculture

JAMES C. NAGLE, M. A., C. E., M. C. E.,
Dean of the School of Engineering
Director of the Engineering Experiment Station

MARK FRANCIS, D. V. M.
Dean of the School of Veterinary Medicine

JAMES OSCAR MORGAN, Ph. D.,
Director of the Summer Session

CLARENCE OUSLEY,
Director of the Extension Service

CHARLES J. CRANE, Col. Ninth Inf., U. S. A.
Commandant of Cadets

OTTO EHLINGER, M. D.,
Surgeon

CHARLES EDWIN FRILEY,
Registrar

WALTER WIPPRECHT, B. S. A.,
Business Manager

W. W. KRAFT, B. S.,
Superintendent of Building and Grounds

WILLIAM N. DANIELS, B. L. S.,
Librarian

THE FACULTY.

Note: The Faculty is composed of the heads of the several departments, and others designated by the Board of Directors. The President is *ex officio* a member and chairman of the Faculty.

William Bennett Bizzell, M. A., D. C. L., President.

Charles Puryear, M. A., C. E., LL. D., Dean of the College, Professor of Mathematics.

M Francis, D. V. M., Dean of the School of Veterinary Medicine, Professor of Veterinary Anatomy.

E. J. Kyle, M. S. A., Dean of the School of Agriculture, Professor of Horticulture.

J. C. Nagle, M. A., C. E., M. C. E., Dean of the School of Engineering, Professor of Civil Engineering.

C. P. Fountain, A. M., Professor of English.

O. M. Ball, M. A., Ph. D., Professor of Biology.

E. J. Fermier, M. E., Professor of Mechanical Engineering.

O. F. Chastain, Professor of History.

J. B. Bagley, B. A., Professor of Textile Engineering.

F. C. Bolton, B. S., Professor of Electrical Engineering.

J. Oscar Morgan, M. S. A., Ph. D., Professor of Agronomy.

J. C. Burns, B. S., Professor of Animal Husbandry.

A. Mitchell, B. C. E., Professor of Drawing.

C. C. Hedges, A. B., Ph. D., Professor of Chemistry and Chemical Engineering.

Martin L. Hayes, B. S., A. M., Professor of Agricultural Education.

H. E. Smith, M. E., Professor of Steam Engineering.

C. B. Campbell, Ph. D., Professor of Modern Languages.

J. W. Ridgway, M. S., Professor of Dairy Husbandry.

R. L. Morrison, M. A., Professor of Highway Engineering.

R. Adelsperger, B. A., B. S., Professor of Architecture and Architectural Engineering.

R. P. Marstellar, D. V. M., Professor of Veterinary Medicine and Surgery.

A. C. Love, C. E., Professor of Railroad Engineering.

J. H. Foster, B. S., M. F., Professor of Forestry.

O. W. Silvey, A. M., Ph. D., Professor of Physics

F. B. Clark, M. A., Ph. D., Professor of Economics.

Charles J. Crane, Colonel Ninth Infantry, U. S. A., Professor of Military Science and Tactics.

R. A. Andree, M. S., Professor of Agricultural Engineering.

S. W. Bilsing, M. A., Acting Professor of Entomology.

R. F. Smith, Associate Professor of Mathematics.

Charles E. Friley, Secretary of the Faculty.

GENERAL INFORMATION.

Government. The government of the College is vested in a board of nine directors, appointed by the Governor for terms of six years. The immediate regulation and direction of the affairs of the College are delegated by the Board of Directors to the President and the Faculty.

Location and Purpose. The Agricultural and Mechanical College of Texas, established by an Act of the Legislature April 17, 1871, and located at College Station in the County of Brazos, was opened for the reception of students October 4, 1876. The purpose of the College is to provide adequate instruction in Agriculture, the Mechanic Arts and the natural sciences connected therewith. A broad foundation for these industrial courses is laid by instruction in languages, literature, education, history and economics, which constitute an essential part of a liberal education.

Method of Instruction. Throughout the several courses, the study of the textbook is supplemented by lectures, discussions, library work, and practical work in the shop, field, laboratory and drawing room. These practical exercises have a high educational value, and serve a useful purpose in fixing and rendering clear the ideas presented in the class room; they have also a practical value, for they are, in great measure, examples of just such problems as the scientific agriculturist or engineer will encounter in the pursuit of his calling.

Growth: The Agricultural and Mechanical College has had a remarkable growth in the forty-two years of its existence. In 1876 there were two College buildings, five residences for professors, a few sheds for live stock, and an enrollment of 106 students. Today there are nine modern dormitories, providing accommodations for 1200 students, twenty-five well equipped buildings occupied by the various departments of the Institution, many residences for professors and officers and a large number of barns, greenhouses and implement sheds, all conveniently situated on a campus of 2600 acres. The total enrollment for the session 1917-18, including the summer session of 1917, is 2248 students. The total valuation of the College property is approximately \$2,500,000.

Discipline. The students of the College are under military discipline, in accordance with an Act of Congress which requires all of the land-grant Colleges to teach Military Science and Tactics. This feature is an important adjunct to the other work of the College. It is conducive to health and to bodily grace and strength, and cultivates habits of strict attention, punctuality, neatness and regularity. The Agricultural and

Mechanical College of Texas is ranked by the War Department as one of the five Distinguished Military Colleges of the United States.

Reserve Officers' Training Corps: The National Defense Act of June 3, 1916 provides for the establishment in civil educational institutions of a Reserve Officers' Training Corps. Its primary object is to qualify, by systematic and standard methods of training, students in such institutions for reserve officers in the military forces of the United States. This military training is so correlated with the student's regular College work that there is practically no interference with the latter.

Members of the R. O. T. C. will receive the following benefits, provided the necessary funds are appropriated by Congress:

1. **Freshmen, Sophomores, Special and Short-course Students** will be furnished free of charge one regulation Khaki uniform, which will be replaced without expense to the student when worn out by ordinary wear and tear. The student incurs no obligation except that of properly caring for the uniform.

2. **Juniors and Seniors**, who agree to continue in the R. O. T. C. during the remainder of their college courses, and to conform to all regulations prescribed for members of the advanced course, will receive free the uniform mentioned above, and, in addition, commutation of rations, amounting to approximately \$8.00 per month.

3. After graduation the student will be eligible for appointment by the President of the United States as a reserve officer of the Army.

Athletics: The usual forms of athletics are encouraged so long as they do not interfere with regular college duties. A Competent Physical Director, assisted by two experienced coaches, supervises the various sports, and a well-equipped athletic field is maintained for practice and for intercollegiate contests.

Religious Activities. Religious services are conducted every Sunday in the College Chapel for the corps of cadets and the residents of the campus. The most prominent ministers of the State address the students at these services. A Sunday School for Bible study, attendance at which is voluntary, affords additional help in the way of ethical training. Every effort is made through lecture and personal example to develop and protect good morals in the young men attending the institution.

Y. M. C. A. The Young Men's Christian Association is the largest laboratory in the College. Its experiments and their results in moral and religious culture are exerting a powerful influence in the education of A. and M. students for an efficient life of service. It conducts religious exercises and lectures on Sunday. Over 500 students are now enrolled in systematic Bible study. The Association employs a General Secretary, who devotes his entire time to the work. A new Y. M. C. A. building, erected at a cost of \$75,000 and furnished with every modern comfort and convenience, adds much to the social life of the student body.

COURSES OF STUDY.

The College offers eleven regular Courses, extending through four years; ten of them lead to the degree of Bachelor of Science, the particular Course pursued being specified in the diploma; the Course in Veterinary Medicine leads to the degree of Doctor of Veterinary Medicine; graduate Courses, short Courses and summer courses are also offered, as shown below:

Four-year Courses.

Agriculture.
Agricultural Education.
Science.
Veterinary Medicine.
Architecture.
Architectural Engineering.
Chemical Engineering.
Civil Engineering.
Electrical Engineering.
Mechanical Engineering.
Textile Engineering.

Graduate Courses.

Graduate Courses in Agriculture, and in Agricultural Education, leading to the degree of Master of Science.

Graduate Courses in Engineering, leading to the degree of Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, and Textile Engineer.

Short Courses—Two Years.

Course in Agriculture.
Course in Agricultural Engineering.
Course for Electricians.
Course in Textile Engineering.

Summer Courses.

The Rural Life School (Six weeks).
The Summer Normal (Six weeks).
The College (Eight weeks).
The School of Cotton Classing (Six weeks).
The Farmers' Short Course (One week).

in the College. In removing conditions by college work a course carrying three term hours credit per week for one year will count as the equivalent of one unit.

NOTE:—Beginning with September 1919, fifteen units will be required for full admission, thirteen for conditional admission.

List A.—Prescribed Units.

English	3 units
Algebra	2 units
Plane Geometry	1 unit

List B.—Elective Units.

English (4th unit)	1 unit	Science:	
Mathematics:		Biology	1 unit
Solid Geometry	$\frac{1}{2}$ unit	Botany	1 unit
Trigonometry	$\frac{1}{2}$ unit	Chemistry	1 unit
History and Civics:		General Science	1 unit
Ancient History	1 unit	Physics	1 unit
M & M History	1 unit	Physiography	$\frac{1}{2}$ unit
English History	$\frac{1}{2}$ unit	Physiology	$\frac{1}{2}$ unit
American History	$\frac{1}{2}$ or 1 unit	Zoology	1 unit
Civics	$\frac{1}{2}$ unit	Vocational Subjects:	
Foreign Languages:		Agriculture	1 to 4 units
Latin	2, 3 or 4 units	Bookkeeping	1 unit
French	2 or 3 units	Drawing	$\frac{1}{2}$ to 2 units
German	2 or 3 units	Manual Training	$\frac{1}{2}$ to 2 units
Spanish	2 or 3 units	Stenography and Typewriting..	1 unit

Special Requirements.—1. In the school of Engineering, students not presenting Solid Geometry for entrance will be required to take that subject as an extra study in the first term of the Freshman year. Special classes will be formed for that purpose.

2. Students admitted conditionally and not presenting Physics for entrance will be required to take an elementary course in Physics as an extra study during the Freshman year.

3. Freshmen who are required to take an extra study may be required to postpone one of the regular studies of the Freshman year. For this reason prospective students are urged to include Solid Geometry and Physics in their high school course, especially if they are preparing for an engineering course in the Agricultural and Mechanical College.

METHODS OF ADMISSION TO THE FOUR YEAR COURSES.

The units required for admission to the Freshman class may be secured:

- By certificate of graduation from an affiliated school.
- By examination.
- By state teacher's certificate (in part).

(A) By Certificate of Graduation from an Affiliated School.

Admission to the Freshman class by certificate will be granted to graduates of affiliated schools who present credentials certifying their age, character, scholarship and graduation, **provided the subjects certified have been approved by the State Department of Education and cover the entrance requirements.** This certificate must give in detail, concerning each subject which the applicant has studied in the school, the length

of time in weeks, the number of recitations per week and the grade or mark indicating his proficiency. Blank certificates may be had upon application to the Registrar.

If the number of units to which the certificate entitles the holder is less than the number required for admission, the deficiency must be made up by examination.

In the matter of admission to the Freshman class by certificate, no credit will be given for work done in an affiliated school unless the applicant is a graduate of the school.

It is of the highest importance that the applicant send his certificate, properly filled out, to the Registrar in advance. If this cannot be done he should bring it with him at the opening of the session. Without the certificate he cannot be admitted, and valuable time will be lost if he has to send for it after reaching College Station.

Affiliated Schools.

Texas high schools, rated as First Class by the State Department of Education, and approved private secondary schools, are automatically affiliated with the Agricultural and Mechanical College of Texas, and their graduates will be credited with the subjects they have completed in which the schools are affiliated.

Graduates of Second Class and Third Class high schools will receive credit for the subjects they have completed which have been approved for affiliation purposes by the State Department of Education; but in order to enter the Freshman class, they must pass examinations in other subjects sufficient to obtain the number of units required for admission.

The College will admit also, without examination, such graduates of schools fully affiliated with the state universities of other states as comply with the requirements for admission indicated above.

On February 8, 1917, a committee representing all the institutions of higher learning in the State was appointed for the purpose of correlating the high schools with the colleges and universities. The committee has adopted standard and prescribed rules for the inspection, classification and affiliation of high schools, and will establish a basis whereby the largest degree of co-operation may be realized between and among the State's institutions of higher learning and other similar institutions, consistent with the performance of their individual functions. The work of inspection, classification and affiliation of high schools will be under the direction of the State Department of Education. Under the terms of the agreement signed by the representatives of the higher institutions the classification assigned any high school by the State Department of Education will hereafter be the basis of affiliation of high schools with the higher institutions.

(B)—Admission by Examination.

Any or all of the scholarship requirements may be met by passing the entrance examinations.

The Spring entrance examinations will be held on May 13, 14, 15 and 16, under the supervision of the State Department of Education. These

examinations will be conducted in each county by the County Superintendent, and the papers will be sent to the State Department of Education to be graded. On the basis of these papers Uniform Entrance Certificates will be issued. These Certificates will be accepted for admission to any Texas College, provided the subjects certified cover the entrance requirements of the College to which application for admission is made. Further information regarding the Spring entrance examinations may be obtained from the State Department of Education, Austin.

Fall Entrance Examinations will be held at the College September 16, 17, and 18, 1918, under the supervision of the College authorities, and will cover all the subjects required or accepted for admission, as outlined above.

(C)—Admission by State Teacher's Certificate.

Applicants holding a first grade state teacher's certificate will receive credit for eight and one-half units; three in English, two in Algebra, one in plane geometry, one in ancient history, one in mediaeval and modern history, one-half in civics. The remaining units necessary for full or conditional admission must be made up by examinations.

Applicants holding a permanent state teacher's certificate will receive credit for twelve and one-half units; three in English, two in algebra, one in plane geometry, one-half in solid geometry, one-half in trigonometry, one in ancient history, one in mediaeval and modern history, one-half in civics, three without specification of subject.

REQUIREMENTS FOR ADMISSION TO THE TWO-YEAR COURSES.

An applicant for admission to a two-year course must be at least eighteen years of age, and must present a certificate showing the satisfactory completion of the ninth grade of a classified school, or its equivalent. He must also present satisfactory certificates in regard to health, character and vaccination, as in the case of candidates for admission to the four year courses.

ADMISSION TO ADVANCED STANDING.

Admission to advanced standing may be secured by examination or by transfer of credits from another college of approved standing. The applicant for advanced standing by transfer must present a certificate of preparatory work covering the entrance requirements of this College, of the work done in the institution from which he comes, and of honorable discharge.

It is highly important that this certificate be sent in advance.

Credits given by transfer are provisional and may be cancelled at any time if the student's work in this College is unsatisfactory.

College credit for work done in secondary schools will be given only on the basis of examinations at the College. Examinations for this purpose shall not include work presented in satisfaction of entrance requirements.

ADMISSION OF STUDENTS FROM STATE NORMAL SCHOOLS.

Students attending the state normal schools during and after the session of 1913-14 will receive credits as follows:

On completion of the second year, students will be given fourteen and one-half entrance units.

On completion of the third or fourth year, students will be given fourteen and one-half entrance units as provided for at the end of the second year; and college credits, in so far as the courses completed in the third and fourth years are equivalent to similar subjects in the course taken in this College.

As in the case of students from other colleges, all credits are provisional and may be cancelled at any time if the student's work in this College is unsatisfactory.

SPECIAL STUDENTS.

Young men over twenty years of age, who cannot satisfy all the requirements for admission and are not candidates for a degree, may be permitted to enter the College upon submitting satisfactory evidence that they are prepared to profit by the studies they desire to take. This evidence must be submitted on the official entrance blank and must be accompanied by a statement showing (1) the applicant's experience, (2) a plan of study, enumerating the subjects he desires to take, and (3) the purpose or end expected to be accomplished by his study.

Before completing registration a special student must show, by a test in English composition, that he has an adequate command of the English language.

In order to be admitted to the work of any department, a special student must secure the consent of the head of the department; and his course of study, as a whole, must be approved by the Dean of the College.

Special students are subject to all the rules and regulations governing regular students, including the prescribed theoretical and practical military training.

A special student who may desire to become a candidate for a degree must satisfy the entrance requirements and obtain the consent of the Dean of the College.

It is the theory of special classification that students should be particularly strong and well prepared to do thorough work in the studies selected. A high standard of scholarship will, therefore, be required of all who are thus classified.

ADVISERS FOR FIRST-YEAR STUDENTS.

Each student on entering College will be assigned to a member of the teaching staff, who will act as his adviser and give him helpful counsel in matters pertaining to his work or to any feature of his college life.

EXPENSES.

Tuition is free to all students.

A registration fee of \$3.00 is required of all students entering the College for the first time. This fee is paid only once, unless the student's connection with the College should later be severed; in that case he must pay the registration fee again in order to re-enter.

Expenses for the Session.

The fees required of all students are:

Trust fund, payable on entrance.....	\$ 5.00	
Incidental fee, payable on entrance.....	5.00	
Medical fee, payable on entrance.....	8.00	
*Maintenance, first term, payable on entrance.....	85.00	
*Maintenance, second term	85.00	
		\$188.00

Other necessary expenses are:

Uniform, payable on entrance, about.....	30.00	
Books and supplies, per session, about	20.00	50.00

Total	\$238.00
-------------	----------

Engineering freshmen will need about \$15.00 extra for drawing instruments.

The student will need at entrance at least \$160.

Payment should be made by bank exchange, money order, or in cash.

Personal checks will not be accepted.

The trust fund is to pay for property damaged or destroyed, and will be returned to the parent if there is no charge of this kind against the student.

The incidental fee is used for sundry incidental expenses, such as printed forms, examination books, etc.

The medical fee covers the professional services of the College surgeon and of the hospital staff.

Incidental and medical fees will in no case be refunded.

Maintenance includes board, room rent, washing, lights, fuel, single bedsteads, mattresses, tables, washstands and chairs.

Each student is required to keep on hand a supply of bed-clothing for single beds, towels, etc. For winter he should provide himself with an overcoat and a raincoat.

Payment for each term must be made in advance.

Students entering after the opening of a term will be charged maintenance for the remainder of that term only.

A student once entering for a term, and having paid for that term, or the balance of it, forfeits all claims to said payment in case of voluntary withdrawal from the College before the expiration of said term, except in case of sickness disqualifying him for the discharge of his duties for the remainder of the term. When such sickness takes place at the College, it

*Due to war conditions, the maintenance fee is subject to change before the opening of the session 1918-19.

must be attested by the College surgeon before the student can receive the balance of his payment.

Graduate Students pay \$8.00 for Medical Fee, with charges for maintenance as above.

Day Students pay \$18.00 to cover trust fund, incidental fee and medical fee, as above.

Uniform.

Every cadet must keep on hand in good condition:

- | | |
|------------------------------------|------------------------------|
| 1 regulation blouse. | 6 turned down white collars. |
| 2 pairs regulation gray trousers. | 1 pair black shoes. |
| 2 pairs regulation white trousers. | 1 pair leggins. |
| 1 pair khaki trousers. | 4 pair white gloves. |
| 1 regulation cap. | 1 regulation tie. |
| 1 regulation hat. | 1 regulation belt. |
| 6 regulation shirts. | 1 working suit. |
| 6 standing white collars. | Ample supply of underwear. |

The blouses, trousers, hats and caps are made by contract and students are required to purchase from the contractors, in order that uniformity may be secured in the cut and quality of the clothing. The contract system not only effects a considerable reduction in the cost of the clothing, but furnishes a guarantee that the material will be of the requisite pattern and quality, and protects the student from imposition by irresponsible parties.

The other regulation articles may be purchased at the Exchange Store mentioned below.

It should be distinctly realized that this clothing is not an additional expense, but that it is the cheapest clothing that cadets can wear. It is very neat in appearance, and is serviceable and durable.

EXCHANGE STORE.

The College runs an Exchange Store for the purpose of supplying necessary articles to students at the lowest possible cost. The Exchange Store carries in stock books, stationery, drawing instruments, regulation articles of the uniform, toilet articles, etc. These goods are sold at prices just sufficient to cover cost and operating expenses.

STUDENT LABOR.

The Legislature has provided a fund by which a limited number of industrious young men may defray a part of their expenses by working for the College at such times as their regular duties will permit.

The rate of pay depends upon the character of the work and the manner in which it is performed. Except in rare cases, a student should not expect to earn more than \$5.00 to \$8.00 per month.

A circular explaining the Student Labor System may be had upon application to the Registrar.

SCHOLARSHIPS.

The Board of Directors offers a Scholarship annually to the honor graduates among the young men in the graduating class of each affiliated school. These Scholarships entitle the holder to exemption from the Registration fee and the Incidental fee. Such scholarships are good only for one year following graduation from the high school. The faculty reserves the right to withdraw Scholarships where the conduct and standing of a student proves unsatisfactory.

THE SCHOOL OF AGRICULTURE.

EDWIN JACKSON KYLE, M. S. A., Dean

The four-year Courses in the School of Agriculture are so arranged as to furnish a good foundation upon which a student may fit himself for the business of farming, the pursuit of scientific investigation in one of the many branches of the agricultural industry, and for teaching in high schools and agricultural colleges. A Short Course, of two years' duration, is also offered, the difference being due largely to the degree in which the student wishes to specialize. The modern farm is a union of many divisions of industry, and the shorter courses confine themselves to laying a foundation that will insure success in all of these, while the longer courses seek to direct the student into that line which will call forth and centralize his special ability and at the same time enable him to meet the variety of conditions that under all circumstances surround a successful life.

The School of Agriculture offers to the student a field of work in which opportunities are unsurpassed. The population of the country is beginning to press upon its productive capacity. Land values are constantly rising, necessitating higher production in order to realize a fair profit. To meet this situation, the farmer must be better trained, more intelligent than ever before, or be reduced to a hopeless "drudge." In addition to the opportunities offered for trained men, as farm owners, or operators, there are constant requests for men properly fitted as consulting experts, teachers and investigators.

The Great War has withdrawn from productive industries 40,000,000 men, resulting in a world-wide shortage of food. To meet this unprecedented situation it devolves upon the United States to produce many times its normal amount of food products. This means more and better farming, in the face of a serious shortage of farm labor, hence it becomes a vital necessity to apply to the fullest extent the modern principles of scientific Agriculture, and to this end the College offers to students interested in this great work the services of a corps of experts in all phases of Agriculture, as well as excellent laboratory, field and class-room facilities.

COURSE IN AGRICULTURE.

In the course in Agriculture special emphasis is laid upon the technical subjects covering the main divisions of agriculture. The work of the Freshman and Sophomore years is prescribed; the work of the Junior year is somewhat elective, and that of the Senior year mostly elective. In order to meet the varied agricultural conditions of the State, opportunity is given in the Junior and Senior years for specialization in Agricultural Engineering, Agronomy, Animal Husbandry, Dairy Husbandry, and Horticulture.

In the choice of elective subjects, the student will arrange his course of study under the advice and direction of the head of the department in which he wishes to specialize.

FRESHMAN YEAR

First Term	Second Term
Elementary Crop Production	Judging Market Types
Judging Market Types	Botany
Botany	Inorganic Chemistry
Inorganic Chemistry	Elementary Dairying
Rhetoric and Composition	Rhetoric and Composition
Principles of Physics	Principles of Physics
Drill Regulations	Drill Regulations

SOPHOMORE YEAR

Farm Poultry	Judging Breed Types
Zoology	Zoology
Geology	Organic Chemistry
English Literature	English Literature
Plant Propagation and Orchardng	Vegetable Gardening
Anatomy and Physiology	Non-Infectious Diseases
Drill Regulations	Drill Regulations

JUNIOR YEAR

Soils	Farm Crops
Analytical Chemistry	Agricultural Chemistry
Argumentation	Argumentation
Electives	Electives

SENIOR YEAR

Fundamental Principles of Economics	Farm Management
Public Speaking	Rural Economics
Electives	Public Speaking
	Electives

The electives offered in the Department of Agricultural Engineering include: Farm Machinery, Farm Buildings, Farm Motors, Surveying, Irrigation and drainage, Tractors, Power Pumps, Farm Concrete, Automobiles and Terracing.

The electives offered in the Department of Agronomy include: Farm Machinery, Surveying, Entomology, Soil Mapping, Plant Breeding, Fertilizers, Soils, Marketing Problems and Cost Accounting.

The electives offered in the Department of Animal Husbandry include: Breeding, Embryology, Animal Parasites, Entomology, Obstetrics, Animal Nutrition, Advanced Judging, Live Stock Feeding, Live Stock Management, Infectious Diseases, and Poultry Management.

The electives offered in the Department of Dairy Husbandry include: Dairy Machinery, Technology of Milk, Embryology, Entomology, Breeding, Bacteriology, Dairy Manufactures, Animal Nutrition, Milk Inspection, Milk Production, Dairy Chemistry, Obstetrics and Dairy Management.

The electives offered in the Department of Horticulture include: Fruit Production, Entomology, Plant Breeding, Spraying, Nut Culture, Plant Diseases, Pomology, Sub-tropical Fruits, Fruit insects, Landscape Art, Dendrology and Experimental Horticulture.

Other elective subjects open to all Juniors and Seniors are: English Literature, Forestry, Industrial History, French, German, Spanish, and the Advanced Course of the R. O. T. C.

COURSE IN AGRICULTURAL EDUCATION.

The Agricultural and Mechanical College of Texas has been designated by the State Board for Vocational Education to prepare the teachers of vocational Agriculture under the provisions of the Smith-Hughes Act. While the College has for several years been furnishing to the

high schools teachers reasonably well prepared to teach agriculture, it is laying plans for the future on a large scale to enable it to do its full duty to the State in this great undertaking. The Course in Agricultural Education has been established as a foundation for these plans.

The demand for teachers will grow rapidly under the stimulus of Federal aid, and the teaching of Agriculture will prove more attractive, since the time of the teacher will be devoted entirely to agricultural work instead of being divided among several more or less dissimilar subjects.

The College is planning a curriculum that will insure to the graduates of the course ample training in the fundamental principles of the main divisions of the field of agricultural education and at the same time permit the student to have some freedom in the selection of subject-matter. The Course in Agricultural Education, which meets fully the requirements of the State Board of Vocational Education, leads to the degree of Bachelor of Science. Opportunity for electives will be given in each year of the course. Students transferring to this course from other approved colleges may receive credit, in satisfaction of the electives, for work satisfactorily completed in the institution from which they transfer, even though such work is not offered in the College.

One of the requirements of the State Board for Vocational Education is that the teacher of vocational agriculture under the provisions of the Smith-Hughes Act must have had experience in the supervised teaching of Agriculture. The College is making provision for giving this training both on the Campus and in nearby high schools.

FRESHMAN YEAR

First Term	Second Term
Elementary Crop Production	Judging Market Types
Judging Market Types	Botany
Botany	Inorganic Chemistry
Inorganic Chemistry	Elementary Dairying
Rhetoric and Composition	Rhetoric and Composition
Drill Regulations	Drill Regulations
Elective	Elective

SOPHOMORE YEAR

Farm Poultry	Judging Breed Types
Zoology	Zoology
Geology	Organic Chemistry
English Literature	English Literature
Plant Propagation and Orcharding	Vegetable Gardening
Drill Regulations	Drill Regulations
Elective	Elective

JUNIOR YEAR

Soils	Farm Crops
Analytical Chemistry	Agricultural Chemistry
Argumentation	Argumentation
Educational Psychology	Methods of Teaching
Electives	Electives

SENIOR YEAR

Fundamental Principles of Economics	Farm Management
Public Speaking	Rural Economics
Vocational Education	Public Speaking
Cotton Classing	Administration of High School Agriculture
Farm Shop Work	*Electives
*Electives	

*Three hours credit in teaching secondary vocational agriculture is required for graduation.

COURSE IN SCIENCE.

The Course in Science places emphasis mainly on the sciences underlying the study of agriculture. It includes the fundamental training in English, Mathematics, History, Economics, Military Tactics, and the natural sciences required in the various specialized vocational courses now offered by the College. By means of electives in the Junior and Senior years, this course affords an opportunity to students to advance themselves still further in these fundamental lines and to give special attention to some instead of taking the vocational subjects of other courses. This course meets the needs of those students who have not yet fully decided as to their vocation, but who wish an education that is strong and well balanced in respect to modern sciences and cultural subjects, as a preparation for sound citizenship. It will appeal also to those students who expect to teach in the high schools of the State, and to those who wish to fit themselves for research in the sciences as related to agriculture and other industries.

FRESHMAN YEAR

First Term	Second Term
Botany	Botany
Inorganic Chemistry	Inorganic Chemistry
Composition and Rhetoric	Drawing
Drawing	Composition and Rhetoric
History of Modern Europe	History of Modern Europe
Principles of Physics	Principles of Physics
Drill Regulations	Drill Regulations

SOPHOMORE YEAR

Zoology	Zoology
Organic Chemistry	Organic Chemistry
Geology	English Literature
English Literature	Economic Entomology
Systematic Entomology	Trigonometry
German	German
Drill Regulations	Drill Regulations

JUNIOR YEAR

Soils	Vertebrate Anatomy
Analytical Chemistry	Agricultural Chemistry
Fundamental Principles of Economics	Rural Economics
Argumentation	Argumentation
Electives	Electives

SENIOR YEAR

Credit and Marketing	Rural Problems
Public Speaking	Public Speaking
Electives	Electives

The electives of the Junior and Senior years may be chosen from the following general divisions: Bacteriology, Botany, Zoology, Chemistry and Entomology.

THE TWO-YEAR COURSE IN AGRICULTURE.

This Course is designed to meet the needs of young men who desire instruction more closely identified with the life of the farm than is provided in the public schools of the State, and of those who find themselves for any cause unable to complete the regular four-year Course provided by the College. A large part of the student's time will be spent in the laboratories and in the field, thus emphasizing the practical side of scientific agriculture.

This is not a Course preparatory to the regular four-year Course. Its sole purpose is to fit men for successful life on the farm and make rural life more attractive. It is for every man who wishes a larger view and a greater skill in doing the world's work.

FIRST YEAR**First Term**

Market Types of Live Stock
Zoology
Elementary Dairying
Practical Composition
Plant Propagation
Cotton Classing
Drill Regulations

Second Term

Soils
Breeds and Types of Live Stock
Botany
Farm Dairying
Practical Composition
Vegetable Gardening
Drill Regulations

SECOND YEAR

In the second year the student is required to select studies from the following list, amounting to 19 term-hours per week, subject to the advice and direction of the Dean of the School of Agriculture.

Farm Concrete
Farm Machinery
Irrigation and Drainage
Crop Production
Feeding
Rhetoric and Composition
Dairy Farming
Tree and Vine Fruits
Spraying
Drill Regulations

Farm Motors
Farm Management
Breeding
Poultry Management
Rhetoric and Composition
Economic Entomology
Apiculture
Forestry
Nut Culture
Animal Diseases
Drill Regulations

THE TWO-YEAR COURSE IN AGRICULTURAL ENGINEERING.

Special machinery and equipment are playing an important part in the development of the agricultural interests of the State.

The Two-year Course in Agricultural Engineering is designed primarily to meet the needs of students who have not had the advantage of a high school training and who wish to specialize in the engineering side of agriculture. It will especially fit students for the technical side of the farm implement and equipment business. Students who have an aptitude for mechanics and who are interested in Agriculture, will find this Course well suited to their needs.

The Course does not offer preparation for entrance to the four-year courses.

FIRST YEAR**First Term**

Farm Machinery
Farm Concrete
Soils
Mechanical Drawing
Practical Composition
Shop Mathematics
Woodwork
Drill Regulations

Second Term

Farm Motors
Farm Crops
Surveying
Mechanical Drawing
Practical Composition
Shop Mathematics
Forge Work
Drill Regulations

SECOND YEAR

Irrigation and Drainage
Farm Buildings
Tractors
Farm Dairying
Rhetoric and Composition
Spraying Machinery
Drill Regulations

Repairing Farm Machinery
Automobiles
Testing Machinery
Feeding
Practical Chemistry
Rhetoric and Composition
Drill Regulations

THE SCHOOL OF VETERINARY MEDICINE.

MARK FRANCIS, D. V. M., Dean

The school of Veterinary Medicine was established in 1916, the Thirty-fourth Legislature appropriating \$100,000 for the erection of a suitable building. This building is thoroughly modern in every respect and is well-equipped throughout.

The Course in Veterinary Medicine, which leads to the degree of Doctor of Veterinary Medicine, has for its object the training of young men in all matters pertaining to the diseases of domestic animals.

The Freshman and Sophomore years are, in large measure, devoted to those physical and biological studies that contribute so much to an understanding of the problems of health and disease. The Junior and Senior years are almost entirely devoted to studies of a technical nature.

Those who expect to engage in ranching, dairying or some other branch of animal industry, will find the Course of great value to them in preventing serious losses from disease or mismanagement of their animals. Those who possess a biological mind will find it an interesting life study, and such men are in great demand in matters of public health or as investigators in Experiment Stations. Those who pursue the course from commercial motives will find its reward are similar to those of any other form of human endeavor, in that these will always be in proportion to the intelligence and energy displayed by the individual.

When we recall that the value of domestic animals in Texas is about five hundred million dollars, it becomes apparent that men informed on such matters will be of great value to the State.



Representatives of the A. and M. College Hereford Herd.

COURSE IN VETERINARY MEDICINE.**FRESHMAN YEAR****First Term**

Anatomy of the Horse
Botany
Inorganic Chemistry
Rhetoric and Composition
Physics
Physiology of Domestic Animals
Drill Regulations

Second Term

Anatomy of the Horse
Botany
Inorganic Chemistry
Rhetoric and Composition
Physics
Physiology of Domestic Animals
Drill Regulations

SOPHOMORE YEAR

Anatomy of the Horse
Zoology
Bacteriology
Composition
Entomology
Inorganic Drugs
Drill Regulations

Histology and Embryology
Judging Live Stock
Zoology
Organic Chemistry
Composition
General Pathology
Drill Regulations

JUNIOR YEAR

Technology of Milk
Argumentation
Clinic
Non-Infectious Diseases
Special Pathology
Special Bacteriology
Organic Drugs
General Surgery
French, German, or R. O. T. C.

Animal Breeding
Argumentation
Clinic
Non-Infectious Diseases
Special Pathology
Special Bacteriology
General Surgery
French, German or R. O. T. C.

SENIOR YEAR

*Animal Nutrition
Public Speaking
Infectious Diseases
Clinics
Diseases of Small Animals
*French or German
Serum Therapy
Obstetrics

Public Speaking
Clinics
Practice of Medicine and Jurisprudence
*French or German
*Laboratory Diagnosis
Meat Hygiene
Toxicology
Operative Surgery

*Note.—Military Science (R. O. T. C.) is optional with French or German, or with Animal Nutrition and Laboratory Diagnosis.



Main Entrance Bernard Shisa Mess Hall.

THE SCHOOL OF ENGINEERING.

JAMES C. NAGLE, M. A., C. E., M. C. E., Dean

The School of Engineering offers regular four-year Courses in Architecture, Architectural Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Textile Engineering, each leading to the degree of Bachelor of Science in the profession selected.

In these Courses, the College endeavors to afford to students with the necessary high school preparation the additional instruction in English, Modern Languages, History and Economics which are essential to a liberal education; and to give them thorough training in the fundamental sciences of Mathematics, Chemistry and Physics, and in the important applications of the principles of these sciences to the various branches of engineering. These Courses include only a few electives, in the belief that better results are obtained by prescribing after the student has selected the profession for which he wishes to prepare himself, the principal studies which he is to pursue.

At intervals throughout the session non-resident lecturers, usually men who have attained prominence in some branch of engineering or industrial pursuit, are invited to address the students in order that they may more closely connect their college instruction with the work they will be called upon to do after they enter upon their professional careers. For the same reason, inspection trips to plants of interest to engineers are made, usually during the Senior year, under the direction of some member or members of the teaching staff. These trips afford the student the opportunity of seeing many things of interest and value.

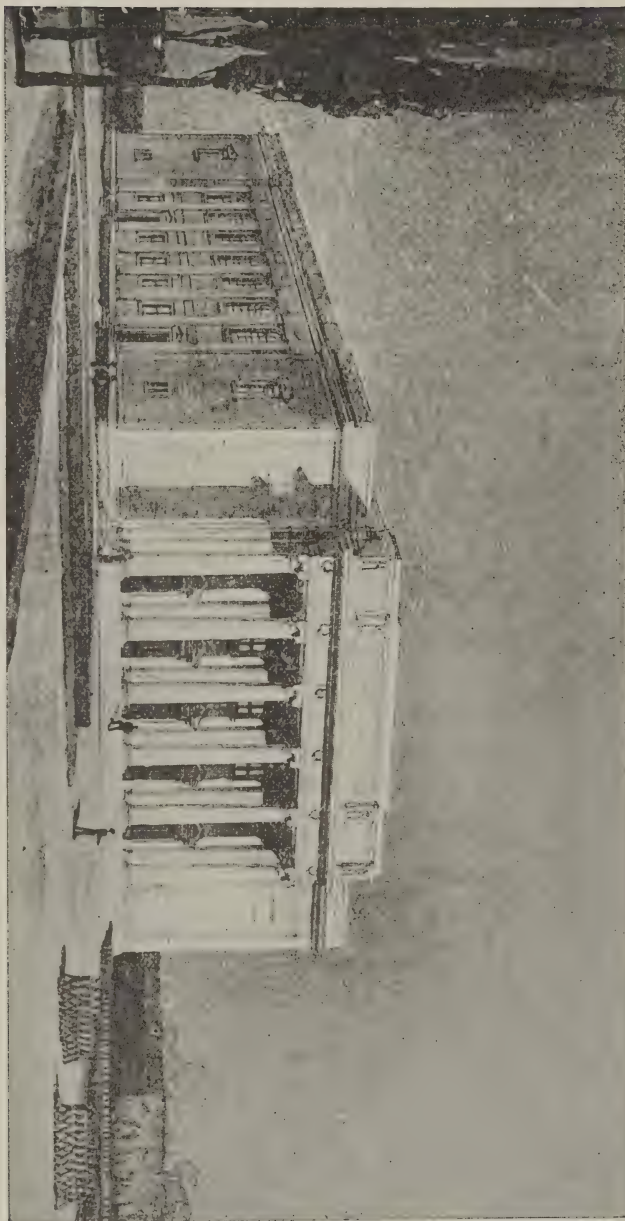
In addition to the regular four-year Courses, short Courses in Electricity and Textile Engineering are offered for mature students who desire to gain a working knowledge of the fundamental principles of these branches of engineering. These courses cover a period of two years each. The work is intensely practical and is designed to fit the student for responsible positions in these industries.

COURSES IN ARCHITECTURE AND ARCHITECTURAL ENGINEERING.

"Architecture is essentially a fine art; but it is a fine art which may be expressed on so large a scale that a deep and comprehensive knowledge of engineering science is necessary to make its expressions stable."

In the Course in Architecture stress is laid on the aesthetic side, and in the Course in Architectural Engineering, on the constructive side of the profession.

Architectural practice has so grown in complexity that it is no longer economically feasible or, in the large sense, desirable, to combine the two abilities. In fact, it rarely happens that the aptitude for both is found in the same individual. Personal preference, then, will guide the student choosing Architecture as his life-work in determining which phase of the profession to adopt. But, as both phases are more or less inter-related—



Guion Hall. The Assembly Hall, Erected at a Cost of \$100,000

the designer must have a certain minimum of constructive ability, and the engineer a certain minimum of designing ability,—it is desirable to make the Courses of Study alike to a certain point. For this reason the Courses now offered are identical during the Freshman and Sophomore years, and students are thus carried to a point where a choice can be made with discretion.

The Course in Architecture is designed to prepare men to go into "general practice." While stress is put on design and the pleasing presentation in color, wash or line of the various projects, on period decoration, sculpture and painting, a ground-work is laid in the underlying principles of construction, sanitation, lighting, heating, ventilation and the kindred utilities which so frequently go into the modern building.

The Course in Architectural Engineering is designed to prepare men for the more technical and scientific aspect of the profession. The application of constructive principles is broader and more thorough, and the design practice is confined largely to the type of problems construction engineers are called upon to solve.

In both Courses considerable prominence is given to cultural subjects in order to fit the student to meet on an equal plane the type of men that will be his natural clients.

Both courses meet the standard requirements of the Association of American Schools of Architecture.

COURSE IN ARCHITECTURE.

FRESHMAN YEAR

First Term
Elements of Architecture
Inorganic Chemistry
Mechanical Drawing
Descriptive Geometry
Freehand Drawing
Rhetoric and Composition
Algebra
Trigonometry
Drill Regulations

Second Term
Elements of Architecture
Inorganic Chemistry
Descriptive Geometry
Freehand Drawing
Shades, Shadows and Perspective
Rhetoric and Composition
Algebra
Analytics
Drill Regulations

SOPHOMORE YEAR

Architectural Design
Carpentry
History of Architecture
Theory of Design
Freehand Drawing
Composition
Calculus
General Physics
Drill Regulations

Architectural Design
Carpentry
History of Architecture
Freehand Drawing
Composition
Lighting and Wiring
General Physics
Analytic Mechanics
Drill Regulations

JUNIOR YEAR

Architectural Design
Masonry
Plumbing
History of Architecture
Strength of Materials
Freehand Drawing
Argumentation
*Electives

Architectural Design
Steel Construction
Heating
Historic Ornament
History of Sculpture
Freehand Drawing
Stresses
Argumentation
*Electives

SENIOR YEAR

Architectural Design
History of Painting
Reinforced Concrete
Stresses
Freehand Drawing
Fundamental Principles of Economics
Public Speaking
*Electives

Architectural Design
Contracts and Specifications
Freehand Drawing
Business Organization
Reinforced Concrete Design
Public Speaking
*Electives

COURSE IN ARCHITECTURAL ENGINEERING.

The Freshman and Sophomore years of the Course in Architectural Engineering are identical with those of the Course in Architecture, which see.

JUNIOR YEAR

Structural Design
Masonry
Plumbing
History of Architecture
Mechanics of Materials
Freehand Drawing
Argumentation
*Electives

Structural Design
Steel Construction
Heating
Stresses
Freehand Drawing
Geology
Argumentation
*Electives

SENIOR YEAR

Structural Design
Reinforced Concrete
Stresses
Fundamental Principles of Economics
Public Speaking
*Electives

Structural Design
Contracts and Specifications
Reinforced Concrete Design
Surveying
Business Organization
Public Speaking
*Electives

*The electives in the Junior and Senior years are: English Literature, French, German, Spanish, and Military Science (R. O. T. C.)

COURSE IN CHEMICAL ENGINEERING.

This Course is designed to prepare young men for technical work in those industries in which raw materials undergo a chemical change in the process of manufacture. Many fields are open to students trained in applied chemistry, and inquiries are continually being received asking for men capable of filling important positions in different industries. Some industries important to the present and future development of this State are those dealing with cottonseed products, sugar, leather, petroleum, cement, ceramics and iron and steel. The analytical chemistry given in the Course is sufficient to enable the graduate to engage in the work of a commercial plant or to enter an industrial plant as a control chemist. The control chemist repeatedly analyzes and evaluates the raw material used in the manufacture as well as the intermediate and finished products. It is through such control that industries of this kind have been made scientific. Pure food laws and other legal enactments calculated to protect the people against fraud have, of late years, greatly accentuated the importance of this work. At the same time enough work is given in general engineering practice to enable the graduate who enters the work as a control chemist to come in time to a full understanding and mastery of the industry in which he is engaged.

The fifth year's work, leading to the degree of Chemical Engineer, is designed to facilitate the transformation of the control chemist into the manager of an industrial plant, capable of adapting chemical processes to varying conditions and improving upon them as occasion demands.

FRESHMAN YEAR**First Term**

Inorganic Chemistry
 Mechanical Drawing
 Descriptive Geometry
 Freehand Drawing
 Rhetoric and Composition
 Algebra
 Trigonometry
 Elementary Mechanics
 Carpentry
 Drill Regulations

Second Term

Inorganic Chemistry
 Mechanical Drawing
 Descriptive Geometry
 Freehand Drawing
 Rhetoric and Composition
 Algebra
 Analytics
 Elementary Mechanics
 Forging
 Drill Regulations

SOPHOMORE YEAR

Qualitative Analysis
 Mechanical Drawing
 Composition
 Calculus
 General Physics
 English Literature, French or German
 Drill Regulations

Quantitative Analysis
 Mechanical Drawing
 Composition
 Calculus
 Elementary Steam Engineering
 General Physics
 English Literature, French or German
 Drill Regulations

JUNIOR YEAR

Advanced Quantitative Analysis
 Industrial Chemistry
 Organic Chemistry
 History of Chemistry
 Electrical Machinery
 Argumentation
 Mechanical Laboratory
 English Literature, French, German or
 R. O. T. C.

Advanced Quantitative Analysis
 Organic Chemistry
 Geology
 Strength of Materials
 Electrical Machinery
 Argumentation
 English Literature, French, German or
 R. O. T. C.

SENIOR YEAR

Physical Chemistry
 Technical Analysis
 Fundamental Principles of Economics
 Public Speaking
 Electives

Physical Chemistry
 Technical Analysis
 Microchemical Methods
 Business Organization
 Public Speaking
 Electives

NOTE.—To those students desiring to do so, an opportunity will be given in the Senior Year to specialize in the study of the cotton seed oil industry

COURSE IN CIVIL ENGINEERING.

This Course has for its object the preparation of young men for entrance upon professional practice in the fields of surveying; highway construction and maintenance; municipal engineering as related to street location, paving, water supply, sewerage, sewage disposal works, street railways, etc.; railway location, construction and maintenance; the construction of levees and other protection works to guard against damage by overflows; irrigation and drainage engineering; the construction of canals and reservoirs, the installation of pumping plants, filtration works, etc.; the design and construction of bridges, steel buildings, and masonry structures. Attention is given to drafting, to the preparation of contracts, specification and estimates of cost, and to the supervision of work, etc.

In the Division of Highway Engineering the Department of Civil Engineering is meeting a constantly increasing demand along lines of great importance to the State. In addition to conducting classes in road building, and in street paving and improvement, the Professor of Highway Engineering delivers lectures and gives advice on highway matters all over the State to as full extent as his time and other duties permit. Exhibits for instruction in highway engineering are shown at the leading fairs and

on demonstration trains for the purpose of giving as many people as possible an opportunity to become familiar with approved methods in these lines.

The fifth year work, leading to the degree of Civil Engineer (C. E.), offers opportunity for more advanced study in some of the branches of Civil Engineering than can be had within the limit of the four-year Course. Every student who can afford the time and money is urged to follow his four-year Course, when possible, with the more technical work of the fifth year.

FRESHMAN YEAR

First Term

Inorganic Chemistry
Mechanical Drawing
Descriptive Geometry
Freehand Drawing
Rhetoric and Composition
Algebra
Trigonometry
Elementary Mechanics
Carpentry
Drill Regulations

Second Term

Inorganic Chemistry
Mechanical Drawing
Descriptive Geometry
Freehand Drawing
Rhetoric and Composition
Algebra
Analytics
Elementary Mechanics
Forging
Drill Regulations

SOPHOMORE YEAR

Plane Surveying
Mechanical Drawing
Composition
Calculus
General Physics
English Literature, French, German or Spanish
Drill Regulations

Railroad Engineering
Analytic Mechanics
Mechanical Drawing
Composition
Calculus
General Physics
English Literature, French, German or Spanish
Drill Regulations

Summer Work: Field Practice, three weeks.

JUNIOR YEAR

Graphics
Railroad Engineering
Mechanics of Materials
Hydraulics
Topographic Drawing
Electrical Machinery
Argumentation
Astronomy
*Elective

Graphics
Railroad Construction
Masonry
Hydraulics
Roofs and Bridges
Argumentation
Electrical Machinery
Elementary Steam Engineering
*Elective

*The electives of the Junior year may be chosen from the following subjects: English Literature, French, German, Spanish, American History and Government, and Military Science (R. O. T. C.)

Summer Work: Field Practice, three weeks.

SENIOR YEAR

In the Senior year the student chooses between General Civil Engineering (Group 1) and Highway and Municipal Engineering (Group 2).

Group 1: General Civil Engineering.

Railroad Drafting
Roofs and Bridges
Roads and Pavements
Reinforced Concrete
Public Speaking
Sewerage
Economics or R. O. T. C.

Geology
Materials of Construction
Water Supply
Irrigation and Drainage
Reinforced Concrete Design
Contracts and Specifications
Bridge Design
Public Speaking
Economics or R. O. T. C.

Group 2: Highway and Municipal Engineering.

Railroad Drafting
 Reinforced Concrete
 Highway Construction and Maintenance
 Bridge Design
 Sewerage
 Public Speaking
 Highway Materials
 Economics, Highway Laws or R.O.T.C.

Geology
 Water Supply
 Bacteriology
 City Pavements
 Public Speaking
 Highway Bridges and Culverts
 Economics, Contracts and Specifications, or R. O. T. C.

COURSE IN ELECTRICAL ENGINEERING.

The Course in Electrical Engineering is designed to give the student a thorough training in the underlying principles of direct and alternating current phenomena and of electrical measurements. It provides training in subjects fundamental to the general practice of the engineering profession, in the theory of electricity and in the application of the theory to practical problems in many branches of applied engineering.

The work of the first three years of the Course is intended to cover most of the fundamental principles of engineering. This is followed in the Senior year by a more detailed study of the applications of these principles. The applied subjects are taught with two objects, the first and more important of which is to impress more firmly on the student's mind the principles already learned. The second object is to give the student some specific information about some branch of Electrical Engineering. To make this plan more effective, the student is expected to elect an applied subject in his Senior year.

The rapidly increasing number of electrical plants and circuits for power transmission, lighting, transportation, telephoning, and telegraphing



A Modern Dormitory.

demands men who are prepared to design, construct and operate them. The studies in the Course outlined have been carefully selected with this demand in view.

A branch of the American Institute of Electrical Engineering has been organized among the students and affords the means of keeping students in touch with the latest development in the electrical field.

FRESHMAN YEAR

First Term

Inorganic Chemistry
Mechanical Drawing
Descriptive Geometry
Freehand Drawing
Rhetoric and Composition
Algebra
Trigonometry
Elementary Mechanics
Carpentry
Drill Regulations

Second Term

Inorganic Chemistry
Mechanical Drawing
Descriptive Geometry
Freehand Drawing
Rhetoric and Composition
Algebra
Analytics
Elementary Mechanics
Forging
Drill Regulations

SOPHOMORE YEAR

Mechanical Drawing
Electricity and Magnetism
Composition
Calculus
Pattern Making and Foundry
General Physics
English Literature, French, German or Spanish
Drill Regulations

Mechanical Drawing
Electrical Measurements
Composition
Calculus
General Physics
Surveying and Leveling
English Literature, French, German or Spanish
Drill Regulations

JUNIOR YEAR

Direct Currents
Argumentation
Steam Engines
Engineering Mechanics
Machine Shop Practice
Kinematics
English Literature, French, German, Spanish, or R. O. T. C.

Mechanics of Materials
Direct Current Design
Argumentation
Steam Engines
Alternating Currents
English Literature, French, German, Spanish or R. O. T. C.

SENIOR YEAR

Fundamental Principles of Economics
Alternating Current Machinery
Electrical Machine Design
Public Speaking
Engineering Laboratory
Industrial Applications of Electricity
Contracts and Specifications
Hydraulics or R. O. T. C.

Business Organization
Alternating Current Machinery
Power Distribution
General Electrical Problems
Public Speaking
Engineering Laboratory
Electives in Applied Electrical Engineering
Hydraulics or R. O. T. C.

COURSE IN MECHANICAL ENGINEERING.

The Course in Mechanical Engineering is designed with a view of giving the student such training as will fit him to design, construct, and erect machinery, power and industrial plants, equipment, etc., and to manage or to operate the same with the greatest economy of labor and materials.

It is not possible to give the student that skill in the shops and that experience in the laboratories which come with long service in practical work, but the aim is to give him the power to understand and apply the underlying principles which are involved in all problems met with in practical engineering.

When it is remembered that there is a steam power plant or other

mechanical equipment connected with practically every industrial enterprise it is apparent that the graduates from the Course in Mechanical Engineering should find a large field for their activities in the industrial development of the State. The training at College followed by a few years' contact with the practical work should fit one to take charge of the operation or of the management of almost any industrial enterprise whether strictly mechanical engineering or involving other activities as well.

FRESHMAN YEAR

First Term	Second Term
Inorganic Chemistry	Inorganic Chemistry
Mechanical Drawing	Mechanical Drawing
Descriptive Geometry	Descriptive Geometry
Freehand Drawing	Freehand Drawing
Rhetoric and Composition	Rhetoric and Composition
Algebra	Algebra
Trigonometry	Analytics
Elementary Mechanics	Elementary Mechanics
Carpentry	Forging
Drill Regulations	Drill Regulations

SOPHOMORE YEAR

Quantitative Analysis	Technical Analysis
Mechanical Drawing	Composition
Composition	Calculus
Calculus	Pattern Making and Foundry
Pattern Making and Foundry	Kinematics
Principles of Manufacture	Kinematic Drawing
Elementary Steam Engineering	Engineering Mechanics
General Physics	General Physics
Drill Regulations	Drill Regulations

JUNIOR YEAR

Mechanics of Materials	Surveying and Stresses
Electrical Machinery	Electrical Machinery
Engines and Boilers	Engines and Boilers
Machine Design	Machine Design
Machine Shop Practice	Machine Shop Practice
Engineering Mechanics	Argumentation
Argumentation	English Literature, French, German,
English Literature, French, German,	Spanish, or R. O. T. C.
Spanish, or R. O. T. C.	

SENIOR YEAR

Industrial Chemistry	Metallurgy
Hydraulics	Hydraulics
Public Speaking	Public Speaking
Engineering Design	Engineering Design
Engineering Laboratory	Engineering Laboratory
Thermodynamics	Thermodynamics
Electives in History, Economics, Languages and R. O. T. C.	Gas Engines
	Electives in History, Economics, Languages and R. O. T. C.

COURSE IN TEXTILE ENGINEERING.

The object of this Course is to prepare young men for entering the field of textile manufacturing. The unprecedented development of the cotton milling industry in the South has brought about an era of prosperity and created a strong demand for educated young men in this industry. The State of Texas offers excellent advantages for the manufacture of cotton goods in its vast supply of raw material, intelligent labor, and excellent climatic conditions, and it is believed that cotton manufacturing will develop as rapidly as skilled and capable managers familiar with local conditions are to be had. The studies outlined have been selected with a view of giving theoretical and practical training in the manufacture of cotton goods as thoroughly as is possible with the time available.

FRESHMAN YEAR		
First Term		Second Term
Inorganic Chemistry		Inorganic Chemistry
Mechanical Drawing		Mechanical Drawing
Descriptive Geometry		Descriptive Geometry
Freehand Drawing		Freehand Drawing
Rhetoric and Composition		Rhetoric and Composition
Algebra		Algebra
Trigonometry		Analytics
Elementary Mechanics		Elementary Mechanics
Carpentry		Forging
Drill Regulations		Drill Regulations
SOPHOMORE YEAR		
Organic Chemistry		Organic Chemistry
Mechanical Drawing		Mechanical Drawing
Composition		Composition
Elementary Steam Engineering		Kinematics
General Physics		General Physics
Fabric Design		Fabric Design
English Literature, French, German or Spanish		English Literature, French, German or Spanish
Drill Regulations		Drill Regulations
JUNIOR YEAR		
Electrical Machinery		Dyeing
Argumentation		Electrical Machinery
Machine Shop Practice		Argumentation
Yarn Manufacture		Yarn Manufacture
Fabric Design		Fabric Design
Weaving		Weaving
Fabric Analysis		Electives in History, Languages and R. O. T. C.
Electives in History, Languages and R. O. T. C.		
SENIOR YEAR		
Quantitative Analysis		Quantitative Analysis
Public Speaking		Public Speaking
Yarn Manufacture		Yarn Manufacture
Sizing		Fabric Analysis
Weaving		Sizing
Economics or R. O. T. C.		Weaving
		Mill Management
		Magazine Review
		Economics or R. O. T. C.

TWO-YEAR COURSE FOR ELECTRICIANS.

The Course for Electricians is as complete in both theoretical and practical training as is possible in two years. It is intended to be a thoroughly practical Course, giving a familiarity with modern electric machines and their underlying principles.

The Course gives ample preparation for many positions in the electrical industry, and has for its object the training of young men for positions in power, lighting and railway plants and telephone service and in other industries using electricity and electrical machines.

The Course is designed particularly for young men who have had some practical experience in electrical work and who wish to add to their theoretical knowledge of electricity and allied subjects in order that they may prepare themselves for promotion to positions of greater responsibility.

FIRST YEAR		
First Term		Second Term
Mechanical Drawing		Mechanical Drawing
Freehand Drawing		Freehand Drawing
Practical Composition		Practical Composition
Electricity and Magnetism		Direct Currents
Shop Mathematics		Shop Mathematics
Forging		Carpentry
Elementary Physics		Elementary Physics
Drill Regulations		Drill Regulations

SECOND YEAR

Rhetoric and Composition
 Alternating Currents
 Wiring and Illumination
 Electrical Laboratory
 Engineering Laboratory
 Engines, Valves and Indicators
 Drill Regulations

Meters
 Electrical Machinery
 Electrical Laboratory
 Engineering Laboratory
 Power Plant Practice
 Engines, Valves and Indicators
 Machine Shop Practice
 Drill Regulations

TWO-YEAR COURSE IN TEXTILE ENGINEERING.

This Course is intended for young men who wish to take up the work of cotton manufacturing and cannot spend more than two years in preparation.

The aim of the Course is to prepare young men for responsible positions in a cotton mill after a short term of apprenticeship. Certificates will be given students who complete the work as outlined.

FIRST YEAR**First Term**

Mechanical Drawing
 Freehand Drawing
 Practical Composition
 Carpentry
 Fabric Design
 Yarn Manufacture
 Weaving
 Drill Regulations

Second Term

Mechanical Drawing
 Freehand Drawing
 Practical Composition
 Forging
 Fabric Design
 Yarn Manufacture
 Weaving
 Drill Regulations

SECOND YEAR

Mechanical Drawing
 Rhetoric and Composition
 Pattern Making and Foundry
 Yarn Manufacture
 Fabric Design
 Weaving
 Drill Regulations

Mechanical Drawing
 Rhetoric and Composition
 Machine Shop Practice
 Yarn Manufacture
 Fabric Design
 Weaving
 Mill Management
 Drill Regulations



Lobby of the Y. M. C. A. Building—The Center of Student Activities.

THE SUMMER SESSION.

J. OSCAR MORGAN, Ph. D., Director

GENERAL STATEMENT.

The summer session of the Agricultural and Mechanical College of Texas has been established for the following well defined purposes:

1. To provide courses of instruction in all phases of agriculture and in domestic economy, manual training, cotton classing, rural sanitation, rural economics, and rural sociology, for the benefit of teachers, rural ministers, county and local officers, farmers, farm women, rural merchants, and others who may be interested in any phase of agricultural or rural development.

2. To offer to young men having sufficient preparation the opportunity of taking courses for college credit, and also to permit students of the College to remove deficiencies or to pursue further courses toward graduation.

3. To provide instruction for young men who need to review or to take additional work as a preparation for examinations to enter this College.

4. To provide instruction in the various subjects required for State teachers' certificates.

The 1918 summer session will begin June 3.

ORGANIZATION.

The work of the 1918 summer session will be given in five divisions as outlined below:

1. THE RURAL LIFE SCHOOL (June 3—July 13.) The work of this division will be given largely by the regular teaching staff of the College, and will include courses in agricultural education, agricultural engineering, rural sanitation, rural sociology, rural economics, agronomy, animal husbandry, dairying, rural home economics, horticulture, farm forging, cotton classing, military science, highway engineering, and the organization and teaching of athletics in secondary schools.

These courses are so planned as to be of special interest to teachers as well as to furnish valuable training for persons not desiring to teach. With the increased demand for vocational training in the secondary and rural school, particularly that pertaining to agriculture and domestic economy, comes the problem of securing adequately trained teachers. It is to this rural life school that these teachers must look for the greater part of this training. They will find in this division opportunities that are unequalled elsewhere in the State for extending their knowledge of these subjects. Not only will the student have at his command all of the regular teaching equipment and facilities of the College, but to this will be added the opportunity for contact with the research work of the Experiment Station, particularly along the lines of soil fertility, crop production, horticulture, dairying and livestock feeding, breeding and management.

2. THE SUMMER NORMAL (June 3-July 13.) In this division the subjects required for all the grades of teacher's certificates will be offered, including primary methods.

Instruction will be given by successful school superintendents, assisted by members of the regular teaching staff of the College.

The Summer Normal is organized under the authority of the State Superintendent of Public Instruction. The instruction in the subjects required for teacher's certificates will conform to the outlines, recommended text books, laboratory requirements, etc., of the State Superintendent of Public Instruction. The final examinations will be held on the official dates as authorized by the State Department of Education.

The College offers unusual advantages to teachers who desire not only to build to State certificates of higher grades, but to increase their professional attainments by taking College courses not included in the Normal division.

3. THE COLLEGE (June 3—July 27.) In this division courses carrying College credit will be offered for the benefit of the students of College grade who desire to make up deficiencies or to take additional work toward graduation and for others who desire College credit. This division will also provide instruction for young men who need to review or to take additional work as a preparation for examinations to enter this College.

Courses carrying College credit will be offered by the following departments: Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Architecture, Biology, Chemistry, Civil Engineering, Dairy Husbandry, Drawing, Economics, English, Entomology, Horticulture, Mathematics, Modern Languages, and Physics.

The following subjects for entrance credit will be offered: Elementary Agriculture, Mechanical Drawing, Freehand Drawing, English (composition and classics), Civics, American History, Ancient History, Mediaeval and Modern History, English History, Plane Geometry, Algebra, and Solid Geometry.

The right is reserved to withdraw any course for which fewer than five students register.

4. THE SCHOOL OF COTTON CLASSING (June 3-July 13.) The object of the School of Cotton Classing is to prepare young men for cotton buying and the managing of cotton warehouses, and to offer to farmers the opportunity to increase their knowledge of the leading farm product of Texas.

A study is made of the elements which determine the commercial grades of cotton; the influences which affect the price of cotton; the system of financing the crop from field to factory, and the relation of exchanges to the business in general. New samples are put each day on the cotton tables for practice, and the work is patterned somewhat after that of a cotton office.

Special attention will be paid to the staple cotton, and an expert in this branch will give instruction in this subject. Many samples of

various length of staple will be provided for students taking up this branch of the work.

The Government standards for classing cotton, which have been adopted by nearly all the leading exchanges, with the exception of New York, will be used.

5. **FARMERS' SHORT COURSE** (Last of July; dates to be announced later.) This course is planned to meet the needs of practical farmers, business men and women who desire to farm on a better basis, to make farming more profitable, and to make farm life more comfortable and attractive.

The teaching staff of the Farmers' Short Course will be composed of officers from the teaching division, the Experiment Station and the Extension Service of the College. In addition there will be several speakers of national reputation.

Divisions:

1. **Agriculture**—Separate courses will be offered in the following departments: Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Dairy Husbandry, Horticulture, Poultry, Plant Diseases and Insects, Veterinary Medicine.

2. **Home Economics**—The work in home economics will be especially adapted to the needs of girls and women from rural communities. The work will consist of lectures and demonstrations in cooking, canning, basket making, and household art.

Entertainment

It is the desire of the College authorities that the Short Course offer the people who attend an opportunity to secure valuable information and at the same time refreshing and wholesome entertainment. The evenings will be given over principally to motion pictures and musicals, and a part of each day will be set aside for special forms of entertainment, including annual Short Course barbecue, reception to women and girls, crowning of the Canning Club Queen, bathing parties, baseball games, etc.

ADMISSION REQUIREMENTS.

In the College division the courses will be offered subject to the same general requirements as in the regular session.

There are no fixed requirements for admission to the Rural Life School, the School of Cotton Classing, or the Farmers' Short Course. Applicants for Summer Normal certificates must meet the legal requirements with reference to age.

For further information regarding the work of the Summer Session, address The Registrar, A. and M. College of Texas, College Station, Texas.

TEXAS AGRICULTURAL EXPERIMENT STATION.

B. YOUNGBLOOD, M. S., Director

The Station is a part of the College. Its purpose is the investigation of problems concerning agriculture. Results secured by the Station are used alike in the classroom and in the Extension Service. The Station is, therefore, the recognized source of agricultural information for this State. While the experiment stations were established 25 years after the agricultural colleges, it is very creditable to the stations that they have rendered vast service in the development of the colleges.

The investment of money in experiment station work is an investment for the enhancement of knowledge. The stations are not self-sustaining. They are supported by State and Federal appropriations. The money spent upon station work from year to year does not yield an annual revenue in dollars and cents, but when considered in connection with their real purpose, experiment stations are considered the best investment that could be made for the country. They yield priceless information, which when placed in the hands of farmers and stockmen, yields additional income to the individual. If experiment farms were a good investment in terms of immediate returns, there would be thousands of people in the business. As it is, no one but the State undertakes the work. Ask a farmer to experiment and he quickly states that it is too expensive, and thus he answers the question of whether or not a station should be self-sustaining.

A few thousand dollars spent in the investigation of Texas Fever under Dr. M. Francis has yielded information of infinite value to the cattle industry of Texas and the South.

The Main Station is located at College Station. Substation experiment farms have been established at Beeville, Troupe, Angleton, Beaumont, Temple, Denton, Spur, Lubbock, Pecos, Nacogdoches and Chillicothe. Texas, being strictly an agricultural State, should maintain one of the best Stations in the country. Ample support is now being rendered the Station by the State, and the money is being spent in accordance with the intent of the appropriation, in a thoroughly economical manner, upon investigation of agricultural problems.

The work of the Texas Station covers practically all of the more important problems in crop and live stock production and allied subjects.

The Experiment Station has proven to be a very efficient and serviceable organization. It is now in the hands of vigorous workers, and is growing steadily.

The results of the experiments and investigations of the Station are published in the Station Bulletins, issued from time to time as the investigations are completed. Copies of these bulletins may be obtained upon application to the Director.

THE TEXAS ENGINEERING EXPERIMENT STATION.

JAMES C. NAGLE, M. A., C. E., M. C. E., Director

The Texas Engineering Experiment Station is composed of all the engineering departments of the College, and was organized for the purpose of affording a service to the industries of Texas similar to that afforded to the agricultural interests by the Agricultural Experiment Station; of assisting the urban population of the State in solving the technical problems of urban life; of investigating engineering and industrial problems of special importance to Texas, and of disseminating information along these lines.

The Texas Engineering Experiment Station staff consists of the entire teaching force of the following departments of the College:

Architecture and Architectural Engineering.

Chemistry and Chemical Engineering.

Civil Engineering.

Economics.

Electrical Engineering.

Mechanical Engineering

Physics.

Textile Engineering.

Bulletins have been issued upon the following subjects: Earth Roads, The Relation and Value of Chemistry to Industry, The Comparative Value of Fuels, Highway Bridges and Culverts, Electricity in Country Homes, Specification for Purchasing Miscellaneous Supplies, and on Gravel Roads. Other bulletins are in press.

For copies of these bulletins and information regarding the work of the Texas Engineering Experiment Station, address the Director, College Station, Texas.

THE EXTENSION SERVICE.

CLARENCE OUSLEY, Director

The purpose of the Extension Service is to carry the benefits of the College to men actively engaged in farming and to others interested in agricultural pursuits, but who are not in a position to enter upon a regular College Course. This is accomplished by means of lectures and demonstrations by specialists in the various branches of agriculture, and home economics, organization of boys' and girls' clubs, co-operation with secondary schools, co-operation with agricultural organizations and farmers' co-operative demonstration work.

Under the Smith-Lever Act of Congress the extension work of the State and the Federal Government has been unified, with the result that all these powerful agencies are now co-operating. Under the terms of this Act and the co-operative agreement between the A. and M. College of Texas and the United States Department of Agriculture the work of the Extension Service is definitely outlined in the form of "projects" which are prepared by the College authorities and approved by the United States Department of Agriculture. The budget for the fiscal year 1917-18 names the following projects: (1) Office administration; (2) home demonstration, canning, cooking, etc.; (3) movable schools; (4) creamery extension; (5) dairy extension; (6) boys' club work, (a) pig clubs, (b) corn and other clubs; (7) rural credits; (8) negro work; (9) publications; (10) farm demonstration; (11) rural organization; (12) farm terracing.

The Extension staff, exclusive of clerks, stenographers, bookkeepers, etc., consists of the Director, the State agent in charge of demonstration work, 9 district agents, 207 county demonstration agents, 6 workers among negroes, and specialists in the following branches of agriculture and home economics: Animal husbandry, hog cholera prevention, dairying, creamery, poultry husbandry, horticulture, agronomy, two rural organizers and market advisors, advisor in rural economics, farm reporter, rural credit, rural gardens, terracing, pig clubs, baby beef clubs, boys' agricultural clubs, 50 women county demonstration agents, organizer of rural women and one assistant. In addition, members of the instructional staff of the A. and M. College and of the Experiment Station staff do special work in extension under the direction of the Extension Department.

Under the Movable School project a corps of specialists gives instruction and demonstration to farmers and their families in agronomy, horticulture, entomology, live stock, home economics and other subjects.

More than fifty of these schools were conducted last year and a much larger number will be held this year.

The specialist in Creamery Extension devotes his time to studies of existing creameries and advising how they may be strengthened. He will, also, investigate proposed locations for new creameries and give advice touching the practicability of plans and methods of procedure. His services are at the disposal of any community interested in developing the creamery business.

The Dairy Division is closely allied with the Creamery Division and by advice and demonstration endeavors to promote dairying on Texas farms. This division is prepared to give advice on the selection, management, feeding and breeding of dairy herds, the handling of milk, butter-making and other subjects related to dairying.

There are two men in charge of Boys' Club work. The Assistant State Agent handles corn, cotton, maize, feterita, kaffir and kindred clubs, and a specialist in pig club and baby beef club work has charge of this branch of the work with boys. Three assistants aid in this work.

The Rural Credit Division gives advice to groups of farmers in farm management based upon the experience of the best farmers in the community and assist county agents in establishing and supervising definite farm management demonstrations and also gives advice and information to bankers and merchants interested in working out a safe basis of farm credit.

A corps of organizers experienced in co-operative farm organization and marketing of farm products is constantly in the field organizing diversification and marketing clubs.

Two specialists in Farm Terracing are in charge of the work of conserving the fertility of Texas soils by giving instruction in the proper method of saving farm land from erosion by rain. When the farmers of any community so desire the Terracer will visit them and give instruction in farm terracing. The county demonstration agents also render this service.

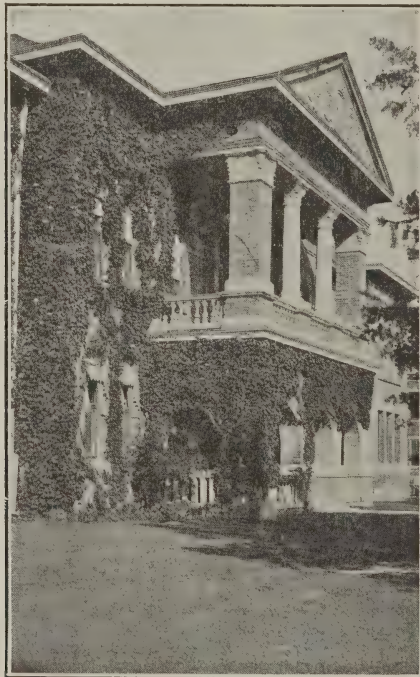
The Home Demonstration and Girls' Canning Club Division is engaged in organizing women and girls in rural communities for the study and demonstration of home economics and labor saving devices. This division also organizes girls into canning clubs for the purpose of interesting and instructing them in the principles of successful home gardening, canning and poultry raising.

Closely related to the women's work just outlined is the division in charge of the work of home economics which seeks to reach the remote

rural home and take to the women of the farm demonstrations in the most practical phases of modern domestic science. Farm women are organized into Bands of Good Neighbors and furnished with a reading course in farm-home topics, and follow-up work is done by sending to each group a demonstrator who gives practical demonstration in bread-making, canning, sanitation, hygiene and other phases of farm life.

The Eduational and Demonstration Work in Hog Cholera Prevention of the Bureau of Animal Industry of the United States Department of Agriculture is carried on in Texas in co-operation with the Extension Service of the A. and M. College and an expert veterinarian devotes his entire time to lectures and demonstrations to farmers on how to combat this swine plague.

It is the earnest desire of the Extension Service to render a large measure of service to the State and to this end it tenders all its facilities and invites the farmers of Texas and their families to make free use of them.



Main Entrance, Agricultural Building.

SUMMARY OF ENROLLMENT, SESSION 1917-18.

REGULAR COURSES.

Class	Agr.	Sci.	VM.	Arch.	AE.	ChE.	CE.	EE.	GE.	ME.	TE.	Total
Graduates -----	10	2	--	--	--	--	--	--	--	--	--	12
Seniors -----	53	--	--	1	1	1	15	9	--	4	3	87
Junior -----	31	2	--	2	1	5	13	10	--	5	3	72
Sophomore -----	78	6	6	2	--	10	22	31	--	18	5	178
Freshman -----	180	19	7	8	5	23	76	102	5	41	5	471
Special -----	31	9	1	2	--	--	3	--	4	1	--	51

TWO-YEAR COURSES.

	C	D	E	F	G	H	M	
Second Year -----	29	17	9	6	--	4	3	68
First Year -----	129	--	--	46	8	7	20	210

Total Regular Session ----- 1149

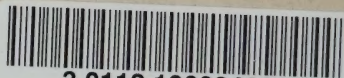
Regular Session -----	1149
Summer Session, 1917: College -----	58
School of Cotton Classing -----	75
Summer Normal -----	56
Rural Life School -----	17
Farmers' Short Course -----	926
College Signal Corps Course -----	7
United States Signal Corps, Depot Company "K" -----	107

2395

Less Duplicates ----- 147

Grand Total, 1917-18 ----- 2248

THE LIBRARY OF THE
AUG 27 1936
UNIVERSITY OF ILLINOIS



3 0112 106084822

TEXAS

